

**ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY
State Assurance Fund**

TABLE OF COST SCHEDULE ITEM CODES

| Cost Schedule Item Code | NON-PHASE SPECIFIC ITEMS AND COSTS | Unit of Measure | July 1, 2005 Cost Schedule Amount |
|-----------------------------------|--|------------------------|--|
| PERSONNEL RATES | | | |
| 1 | Principal Level | \$/Hour | \$126 |
| 2 | Senior Level | \$/Hour | \$108 |
| 3 | Project Level | \$/Hour | \$92 |
| 4 | Staff Level | \$/Hour | \$77 |
| 5 | Field Level | \$/Hour | \$65 |
| 6 | Technical Level | \$/Hour | \$57 |
| 7 | Administrative Assistant Level | \$/Hour | \$47 |
| 8 | Word Processor Level | \$/Hour | \$41 |
| CONTRACTOR PERSONNEL RATES | | | |
| 9 | Construction Field Supervisor Level | \$/Hour | \$82 |
| 10 | Skilled Laborer Level | \$/Hour | \$52 |
| 11 | Unskilled Laborer Level | \$/Hour | \$41 |
| 12 | Equipment Operator Level (Average Rate to Operate a Standard Piece of Equipment) | \$/Hour | \$61 |
| MILEAGE RATES | | | |
| 13 | Consultant Mileage Rate (single person) | \$/Mile | \$0.41 |
| 14 | Consultant Mileage Rate (two people) | \$/Mile | \$0.41 |
| 15 | Contractor Daily Travel Mileage Rate | \$/Mile | \$0.41 |
| PER DIEM RATES | | | |
| | Per Diem Requirement (# Miles Required) | 50 Miles | |
| 16 | Fieldwork Per Diem Without Overnight Stay | \$/Day | \$40 |
| 17 | Fieldwork Per Diem With Overnight Stay (Incl. Lodging) | \$/Day | \$108 |
| MISCELLANEOUS | | | |
| 18 | Health and Safety Plan | \$/HASP | \$714 |
| 19 | Pursuit of Off-Site Access Agreement with a Private Entity Only | \$/Access | \$1,279 |
| EQUIPMENT RATES | | | |
| 20 | Water Level Indicator | \$/Day | \$40 |
| 21 | Oil/Water Interface Probe | \$/Day | \$60 |
| 22 | pH Temperature and Conductivity Meter | \$/Day | \$45 |
| 23 | Photoionization Detector | \$/Day | \$80 |
| 24 | Flame Ionization Detector | \$/Day | \$115 |
| 25 | LEL/O2 Meter | \$/Day | \$60 |
| 26 | Dissolved Oxygen Meter | \$/Day | \$55 |
| 27 | 1.6" Diameter Disposable Bailer | \$/Bailer | \$6 |
| 28 | 3.3" Diameter Disposable Bailer | \$/Bailer | \$20 |
| 29 | Combustible Gas Indicator (CGI) | \$/Day | \$80 |
| 30 | Vapor Sampling Pump Kit | \$/Day | \$30 |
| 31 | Tedlar Bag (0.5L) | \$/Bag | \$15 |

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| | | | |
|----|--|--------|------|
| 32 | Manual-Operated Hand Auger Sampling Kit (Hand Auger/Brass Sleeves) | \$/Day | \$68 |
|----|--|--------|------|

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| 33 | Generator (\leq 6kw) | \$/Day | \$80 |
| 34 | Submersible Pump with Controller | \$/Day | \$160 |
| 35 | Peristaltic Pump | \$/Day | \$40 |
| CONTRACTOR DRILLING - RELATED ACTIVITIES | | | |
| <i>SOIL BORING AND SAMPLING Mobilization/Demobilization (Mob/Demob)</i> | | | |
| 36 | Hollow Stem Auger Drilling Method (includes 60 miles of travel) | Per Event | \$523 |
| 37 | All Other Drilling Methods (includes 60 miles of travel) | Per Event | \$620 |
| <i>SOIL BORING AND SAMPLING MOB/DEMO ADDITIONAL TRAVEL</i> | | | |
| 38 | Hollow Stem Auger Drilling Method - Mob/Demob Additional Travel (additional mileage over the 60 miles included in #36) | Per Mile | \$5 |
| 39 | All Other Drilling Methods - Mob/Demob Additional Travel (additional mileage over the 60 miles included in #37) | Per Mile | \$5 |
| <i>SOIL BORING AND SAMPLING</i> | | | |
| 40 | Hollow Stem Auger Drilling Method-Vertical Boring | Per Foot | \$23 |
| 41 | Hollow Stem Auger Drilling Method-Angle Boring | Per Foot | \$29 |
| 42 | Limited Access Drilling Method-Vertical Boring | Per Foot | \$38 |
| 43 | Air Rotary Drilling Method-Vertical Boring | Per Foot | \$40 |
| 44 | Rotosonic Drilling Method-Vertical Boring | Per Foot | \$44 |
| 45 | Dual Wall Percussion Drilling Method-Vertical Boring | Per Foot | \$42 |
| 46 | Dual Wall Percussion Drilling Method-Angle Boring | Per Foot | \$61 |
| 47 | Soil Boring Abandonment by Grout (all boring diameters) | Per Foot | \$11 |
| CONTRACTOR - WELL INSTALLATION RELATED ACTIVITIES | | | |
| <i>DRILLING AND WELL INSTALLATION</i> | | | |
| 48 | 2 inch Hollow Stem Auger | Per Foot | \$40 |
| 49 | 4-inch Hollow Stem Auger | Per Foot | \$49 |
| 50 | 6-inch Hollow Stem Auger | Per Foot | \$69 |
| 51 | 2-inch Air Rotary | Per Foot | \$57 |
| 52 | 4-inch Air Rotary | Per Foot | \$66 |
| 53 | 6-inch Air Rotary | Per Foot | \$89 |
| 54 | 2-inch Rotosonic | Per Foot | \$64 |
| 55 | 4-inch Rotosonic | Per Foot | \$67 |
| 56 | 6-inch Rotosonic | Per Foot | \$83 |
| 57 | 2-inch Dual Wall Percussion | Per Foot | \$59 |
| 58 | 4-inch Dual Wall Percussion | Per Foot | \$70 |
| 59 | 6-inch Dual Wall Percussion | Per Foot | \$91 |
| <i>SURFACE COMPLETION</i> | | | |
| 60 | Well Surface Completion: Access Manhole \leq 12" | \$/Well | \$312 |

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| | | | |
|----|---|---------|-------|
| 61 | Well Surface Completion: Access Manhole > 12" to <= 24" | \$/Well | \$526 |
|----|---|---------|-------|

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| WELL DEVELOPMENT MOB/DEMOB | | | |
| 62 | Well Development Mob/Demob | Per Event | \$507 |
| 63 | Well Development - Mob/Demob Additional Travel (additional mileage over the 60 miles included in #62) | Per Mile | \$5 |
| WELL DEVELOPMENT | | | |
| 64 | 2-inch Well: Depth to Water Less Than 100 Feet | \$/Well | \$491 |
| 65 | 2-Inch Well: Depth to Water Equal To or Greater Than 100 Feet | \$/Well | \$610 |
| 66 | 4-Inch Well: Depth to Water Less Than 100 Feet | \$/Well | \$531 |
| 67 | 4-Inch Well: Depth to Water Equal To or Greater Than 100 Feet | \$/Well | \$640 |
| 68 | 6-Inch Well: Depth to Water Less Than 100 Feet | \$/Well | \$652 |
| 69 | 6-Inch Well: Depth to Water Equal To or Greater Than 100 Feet | \$/Well | \$750 |
| MOBILE LABORATORY | | | |
| 70 | Mobile Lab Mob/Demob Rate for a One Person Crew | Per Event | \$396 |
| 71 | Mobile Lab Mob/Demob Rate for a Two Person Crew | Per Event | \$569 |
| 72 | Mobile Lab - Mob/Demob Additional Travel Rate for a One Person Crew | Per Mile | \$2 |
| 73 | Mobile Lab - Mob/Demob Additional Travel Rate for a Two Person Crew | Per Mile | \$2 |
| 74 | On-Site Mobile Lab Rate for a One Person Crew (Includes Soil and GW analyses) | \$/Hour | \$176 |
| 75 | On-Site Mobile Lab Rate for a Two Person Crew (Includes Soil and GW analyses) | \$/Hour | \$263 |
| LABORATORY ANALYSIS | | | |
| ORGANIC ANALYSIS | | | |
| Petroleum Hydrocarbons (HC)- SOIL | | | |
| 76 | HC by ADHS Method 418.1 AZ (Soil Only) | \$/Sample | \$72 |
| 77 | HC by ADHS Method 8015AZR1 (Soil Only) | \$/Sample | \$96 |
| HC - AIR | | | |
| 78 | HC by ADHS Method 8015AZR1-Modified (Air Only) | \$/Sample | \$108 |
| 79 | HC/BTEX by EPA Method 8015AZR1(Modified) 8021B (Air Only) | \$/Sample | \$131 |
| 8021B SOIL | | | |
| 80 | Aromatic VOCs (BTEX) by EPA Method 8021B (Soil Only) | \$/Sample | \$95 |
| 81 | Halogenated VOCs (BTEX) by EPA Method 8021B Arizona Target Compounds (Soil Only) | \$/Sample | \$137 |
| 82 | EPA Method 8021B; Arizona Target Compounds (Soil Only) | \$/Sample | \$162 |
| 83 | Full List VOCs by EPA Method 8021B (Soil Only) | \$/Sample | \$212 |
| 8021B GROUNDWATER | | | |
| 84 | Aromatic VOCs (BTEX) by EPA Method 8021B (Groundwater Only) | \$/Sample | \$100 |
| 85 | Halogenated VOCs (BTEX) by EPA Method 8021B Arizona Target Compounds (Groundwater Only) | \$/Sample | \$143 |
| 86 | EPA Method 8021B; Arizona Target Compounds (Groundwater Only) | \$/Sample | \$167 |
| 87 | Full List VOCs by EPA Method 8021B (Groundwater Only) | \$/Sample | \$205 |

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| 8021B AIR | | | |
| 88 | Aromatic VOCs (BTEX) by EPA Method 8021B (Air Only) | \$/Sample | \$145 |
| 89 | Halogenated VOCs by EPA Method 8021B Arizona Target Compounds (Air Only) | \$/Sample | \$180 |
| 8260B SOIL | | | |
| 90 | EPA Method 8260B; Arizona Target Compounds (Soil Only) | \$/Sample | \$227 |
| 91 | Full List VOCs by EPA Method 8260B (Soil Only) | \$/Sample | \$242 |
| 8260B GROUNDWATER | | | |
| 92 | EPA Method 8260B; Arizona Target Compounds (Groundwater Only) | \$/Sample | \$229 |
| 93 | Full List VOCs by EPA Method 8260B (Groundwater Only) | \$/Sample | \$244 |
| POLYNUCLEAR AROMATIC HYDROCARBONS (PAHs) | | | |
| 94 | Semi-Volatile Organics by EPA Method 8270C - base neutral (Soil Only) | \$/Sample | \$237 |
| 95 | Semi-Volatile Organics by EPA Method 8270C - base neutral (Groundwater Only) | \$/Sample | \$256 |
| 96 | Polynuclear Aromatic Hydrocarbons (PAHs) by EPA Method 8310 (Soil Only) | \$/Sample | \$179 |
| 97 | Polynuclear Aromatic Hydrocarbons (PAHs) by EPA Method 8310 (Groundwater Only) | \$/Sample | \$177 |
| BIOFEASIBILITY / BIOTREATABILITY ANALYSIS | | | |
| 98 | Phosphate-P by an Approved EPA/ASTM Method (Soil Only) | \$/Sample | \$39 |
| 99 | Nitrate + nitrite-N by an Approved EPA/ASTM Method (Soil Only) | \$/Sample | \$43 |
| 100 | Nitrogen (Soil Only) | \$/Sample | \$45 |
| 101 | Alkalinity by EPA Method 310.1 (Groundwater Only) | \$/Sample | \$21 |
| 102 | Total Organic Carbon by EPA Method 415.1 | \$/Sample | \$51 |
| 103 | Total Organic Carbon by EPA Method 9060 | \$/Sample | \$64 |
| 104 | Ammonia by EPA Method 350.3 or other ASTM Method (Groundwater Only) | \$/Sample | \$30 |
| 105 | Sulfate by EPA Method 375.2 or other ASTM Method (Groundwater Only) | \$/Sample | \$26 |
| 106 | Nitrate by EPA Method 353.2 (Groundwater Only) | \$/Sample | \$26 |
| 107 | Alkalinity by EPA Method 310.1 Modified (Soil Only) | \$/Sample | \$22 |
| 108 | Total Dissolved Solids by EPA Method 160.1 | \$/Sample | \$20 |
| 109 | Total Dissolved Solids by EPA Method 160.3 | \$/Sample | \$20 |
| 110 | Biochemical Oxygen Demand (BOD) by EPA Method 405.1 (Aqueous Matrices Only) | \$/Sample | \$49 |

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| WASTE CHARACTERIZATION ANALYSIS | | | |
| 111 | HC by EPA Method 418.1 (Groundwater Only) - FOR WASTE CHARACTERIZATION AND PERMIT REQUIREMENT PURPOSES ONLY | \$/Sample | \$76 |
| 112 | TCLP Extraction Lead (Pb) Analysis by EPA Method 1311 and the appropriate SW846 EPA Method | \$/Sample | \$114 |
| 113 | TCLP Extraction by EPA Method 1311 - Analysis of 8 RCRA Metals by appropriate SW846 EPA Method | \$/Sample | \$255 |
| 114 | Ignitability Test by EPA Method 1010 (Liquid Only) | \$/Sample | \$47 |
| 115 | Ignitability Test by EPA Method 1010 Modified (Soil Only) | \$/Sample | \$48 |
| 116 | Corrosivity pH by EPA Method 9045 (Soil Only) | \$/Sample | \$20 |
| 117 | Corrosivity pH by EPA Method 9040 (GW Only) | \$/Sample | \$19 |
| 118 | Paint Filter Free Liquids by EPA Method 9095 | \$/Sample | \$21 |
| 119 | PCB's by EPA Method 8082 (Soil Only] | \$/Sample | \$123 |
| 120 | Lead (Pb) by an approved SW846 EPA Method (Soil Only) | \$/Sample | \$36 |
| CONTRACTOR - OTHER ACTIVITIES | | | |
| INVESTIGATIVE DERIVED WASTE | | | |
| 121 | Containerized Contaminated Water Disposal | \$/Drum | \$141 |
| 122 | Containerized Contaminated Soil Disposal | \$/Drum | \$323 |
| 123 | Landfill Disposal of Petroleum Contaminated Soil | \$/Ton | \$40 |

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| NOTE: Additional activities (without a Cost Schedule Item Code) that are associated with a Phase can be located on the Phase Code Table. | | | |
| PHASE A - RELEASE CONFIRMATION | | | |
| 124 | 14-Day Release Confirmation Report | Per Report | \$559 |
| PHASE B - INITIAL SITE CHARACTERIZATION | | | |
| 125 | Site Reconnaissance and Field Receptor Survey [1/4 Mile] | Lump Sum | \$1,636 |
| PHASE H - REMEDIAL RESPONSE | | | |
| 126 | Pre-Built Remedial Engineering Design (Active Remedial System) | Per Design | \$6,072 |
| PHASE I - OPERATION AND MAINTENANCE | | | |
| 127 | SVE System with Thermal Oxidizer (100 cfm) | \$/Month | \$3,272 |
| 128 | SVE System with Thermal Oxidizer (250 cfm) | \$/Month | \$4,021 |
| 129 | SVE System with Thermal Oxidizer (500 cfm) | \$/Month | \$4,656 |
| 130 | SVE System With Thermal Oxidizer (700 cfm) | \$/Month | \$5,597 |
| 131 | SVE System with Catalytic Oxidizer (100 cfm) | \$/Month | \$3,310 |
| 132 | SVE System with Catalytic Oxidizer (250 cfm) | \$/Month | \$4,269 |
| 133 | SVE System with Catalytic Oxidizer (500 cfm) | \$/Month | \$5,069 |
| 134 | Air Sparge System (up to 100 cfm and up to 12 psi) | \$/Month | \$1,029 |
| 135 | Air Sparge System (up to 100 cfm and 12 psi to 100 psi) | \$/Month | \$1,297 |
| 136 | Blower, 160 CFM | \$/Month | \$1,056 |
| 137 | Blower, 280 CFM | \$/Month | \$1,353 |
| PHASE K - REMEDIAL EXCAVATION | | | |
| 138 | Remedial Excavation | Per Cubic Yard | \$12 |
| 139 | Backfill and Compaction of Remedial Excavation | \$/Ton | \$21 |
| PHASE L - TANK CLOSURE | | | |
| 140 | Tank Closure Contractor Mob/Demob | Per Event | \$730 |
| 141 | Tank Closure Contractor Mob/Demob Additional Travel (additional mileage over 60 miles included in #140) | Per Mile | \$5 |
| PHASE N - REPORTING | | | |
| ADEQ-Approved Site Characterization Report (SCR) | | | |
| 142 | ADEQ-Approved SCR; Up To 4 Soil Borings | \$/Report | \$4,232 |
| 143 | ADEQ-Approved SCR; Up To 4 Groundwater Monitor Wells | \$/Report | \$5,259 |
| 144 | ADEQ-Approved SCR; Up to 4 Soil Borings and 4 Groundwater Monitor Wells | \$/Report | \$6,101 |
| 145 | Additional Cost For Each Additional Soil Boring Over 4 the for ADEQ-Approved SCR | \$/Boring | \$295 |
| 146 | Additional Cost For Each Additional Groundwater Well Over 4 for the ADEQ-Approved SCR | \$/Well | \$325 |

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| ADEQ-Approved Corrective Action Plan (CAP) | | | |
| 147 | ADEQ-Approved Corrective Action Plan (CAP) | \$/CAP | \$7,202 |
| Groundwater Monitoring Report | | | |
| 148 | First Periodic Groundwater Monitoring Report: Up to 4 Groundwater Monitoring Wells | \$/Report | \$2,495 |
| 149 | Subsequent Periodic Groundwater Monitoring Report: Up To 4 Groundwater Monitoring Wells | \$/Report | \$1,649 |
| 150 | Additional Cost for Each Additional Groundwater Monitor Well Over 4 for the First Periodic Groundwater Report | Per Well | \$185 |
| 151 | Additional Cost for Each Additional Groundwater Monitor Well Over 4 for the Subsequent Periodic Groundwater Report | Per Well | \$162 |
| Remedial Progress Report | | | |
| 152 | Initial Periodic Remedial Progress Report (Soil and Groundwater) | \$/Report | \$2,889 |
| 153 | Subsequent Periodic Remedial Progress Report (Soil and Groundwater) | \$/Report | \$2,055 |
| Corrective Action Completion Report | | | |
| 154 | Corrective Action Completion Report - (Previously Titled "Post Remediation Closure Report") | \$/Report | T&M |
| PHASE P - WORK PLAN AND SAF APPLICATION PREPARATION | | | |
| WORK PLANS | | | |
| 155 | ADEQ-Approved Site Characterization Work Plan Scenario 1: Soil Only | \$/Plan | \$4,040 |
| 156 | ADEQ-Approved Site Characterization Work Plan Scenario 2: Soil and Groundwater | \$/Plan | \$5,284 |
| 157 | ADEQ-Approved SAF Work Plan to Implement ADEQ-Approved CAP | \$/Plan | \$3,866 |
| SAF APPLICATION PREPARATION | | | |
| 158 | ADEQ-Approved Preapproval Application | \$/Application | \$1,016 |
| 159 | Reimbursement or Direct Payment Application [Less than or Equal to two (2) Primary Provider Invoices] | \$/Application | \$933 |
| 160 | Reimbursement or Direct Payment Application [Greater than two (2) Less than or Equal to five (5) Primary Provider Invoices] | \$/Application | \$1,124 |
| 161 | Reimbursement or Direct Payment Application [Six (6) or more Primary Provider Invoices] | \$/Application | \$1,368 |